INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/000475

A. CLASS Int.	FIFICATION OF SUBJECT MATTER C1 H05K3/00, H05K1/02, B65H29	0/64, B65H41/00		
According to	o International Patent Classification (IPC) or to both na	tional classification and IPC	:	
B. FIELD	S SEARCHED			
Minimum d Int.	ocumentation searched (classification system followed C1 H05K3/00, H05K1/02, B65H29	by classification symbols) 9/64, B65H41/00		
	ion searched other than minimum documentation to the			
Jitsı Kokai	uyo Shinan Koho 1922-1996 i Jitsuyo Shinan Koho 1971-2004	Toroku Jitsuyo Shinan Koh Jitsuyo Shinan Toroku Koh		
Electronic d	ata base consulted during the international search (nam	e of data base and, where practicable, sea	rch terms used)	
	·		٥	
C. DOCU	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
X	JP 2001-351950 A (Toray Indu		. 1-3	
Y	21 December, 2001 (21.12.01), Column 9, line 23 to column 1 (Family: none)		4-21	
Y	JP 5-147819 A (Ibiden Co., L 15 June, 1993 (15.06.93), Column 4, line 31 to column 5		4-21	
	lines 33 to 45; Fig. 3 (Family: none)	o, line 12, column o,		
Y	JP 2002-128388 A (Sharp Corp 09 May, 2002 (09.05.02), Column 19, lines 31 to 43 (Family: none)	-),	. 8	
	(LeanLly: Morre)	, 1	•	
	(2)			
N Furth	er documents are listed in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents: "I" later document published after the international filing date or priority date and not in conflict with the application but cited to considered to be of particular relevance understand the principle or theory underlying the invention				
"E" earlier	med to be of particular relevance document but published on or after the international filing	"X" document of particular relevance; the	claimed invention cannot be	
	ent which may throw doubts on priority claim(s) or which is	considered novel or cannot be conside step when the document is taken alone	•	
special	establish the publication date of another citation or other reason (as specified) ent referring to an oral disclosure, use, exhibition or other	"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such	when the document is	
means "P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed			skilled in the art	
Date of the	actual completion of the international search ebruary, 2004 (19.02.04)	Date of mailing of the international search, 2004 (09.		
	nailing address of the ISA/ nese Patent Office	Authorized officer		
Facsimile No.		Telephone No.		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/000475

	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Category*		
Y	JP 2002-282832 A (Ricoh Co., Ltd.), 02 October, 2002 (02.10.02), Column 8, line 13 to 34 (Family: none)	10,15,16
Y	JP 62-56245 A (Somar Corp.), 11 March, 1987 (11.03.87), Page 2, lower right column, line 16 to page 3, upper right column, line 14; page 4, lower right column, lines 8 to 9 (Family: none)	11,19
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 8855/1975(Laid-open No. 90837/1976) (Fuji Photo Film Co., Ltd.), 21 July, 1976 (21.07.76), Page 3, lines 10 to 13; page 5, line 19 to page 6, line 1 (Family: none)	13,20
Y	JP 9-194128 A (Matsushita Electric Industrial Co., Ltd.), 29 July, 1997 (29.07.97), Column 4, lines 24 to 28 (Family: none)	17
Y	JP 2001-89018 A (Hitachi Techno Engineering Co., Ltd.), Column 4, lines 9 to 19 (Family: none)	18
		·
		ş
	-	